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Dkt. 66833-A-PCT-US/JPW/BJA/ML

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Jingyue Ju
U.S. Serial No. : 10/521,206
Filing Date : November 9, 2006
For : MULTIPLEX GENOTYPING USING SOLID PHASE
CAPTURABLE DIDEOXYNUCLEOTIDES AND MASS
SPECTROMETRY

1185 Avenue of the Americas
New York, New York 10036
May 2, 2007

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with his duty of disclosure under 37 C.F.R. §1.56, applicant directs the Examiner's attention to the following items which are listed on the attached Form PTO-1449 (**Exhibit A**). Items 1-48 are U.S. Patents or U.S. Patent Application Publications. As permitted by 37 C.F.R. 1.98(a)(2)(ii), no copies of these items are included herewith. In addition, as permitted by 37 C.F.R. 1.98(d), copies of references 49-54, and 62-114 are not included, as these references were previously submitted to, or cited by the Office in connection with the following application which is relied on for an earlier effective filing date under 35 U.S.C. 120: U.S. Serial No. 10/194,882, filed July 12, 2002. Copies of references 55-61, and 115-146 are attached hereto as Exhibits 1-39, respectively.

1. U.S. Patent No. 4,824,775, issued April 25, 1989, Dattagupta;
2. U.S. Patent No. 5,118,605, issued June 2, 1992, Urdea;

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3. U.S. Patent No. 5,174,962, issued March 3, 1999, Ju;
4. U.S. Patent No. 5,302,509, issued December 4, 1994, Cheeseman;
5. U.S. Patent No. 5,599,675, issued February 4, 1997, Brenner;
6. U.S. Patent No. 5,654,419, issued August 5, 1997, Mathies;
7. U.S. Patent No. 5,728,528, issued March 17, 1998, Mathies;
8. U.S. Patent No. 5,763,594, issued June 9, 1998, Hiatt et al.;
9. U.S. Patent No. 5,770,367, issued June 23, 1998, Southern;
10. U.S. Patent No. 5,789,167, issued August 4, 1998, Konrad;
11. U.S. Patent No. 5,804,386, issued September 8, 1998, Ju;
12. U.S. Patent No. 5,808,045, issued September 15, 1998, Hiatt et al.;
13. U.S. Patent No. 5,814,454, issued October 29, 1998, Ju;
14. U.S. Patent No. 5,834,203, issued November 10, 1998, Katzir;
15. U.S. Patent No. 5,849,542, issued December 15, 1998, Reeve et al.;
16. U.S. Patent No. 5,853,992, issued December 29, 1998, Glazer;

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17. U.S. Patent No. 5,869,255, issued February 9, 1999, Mathies;
18. U.S. Patent No. 5,872,244, issued February 16, 1999, Hiatt et al.
19. U.S. Patent No. 5,876,936, issued December 29, 1992, Ju;
20. U.S. Patent No. 5,885,775, issued March 23, 1999, Haff et al.;
21. U.S. Patent No. 5,945,283, issued August 31, 1999, Kwok;
22. U.S. Patent No. 5,952,180, issued September 14, 1999, Ju;
23. U.S. Patent No. 6,028,190, issued February 28, 2000, Mathies;
24. U.S. Patent No. 6,046,005, issued April 4, 2000, Ju;
25. U.S. Patent No. 6,074,823, issued June 13, 2000, Hubert;
26. U.S. Patent No. 6,136,543, issued October 24, 2000, Anazawa et al.;
27. U.S. Patent No. 6,197,557, issued March 6, 2001, Markarov et al.;
28. U.S. Patent No. 6,214,987, issued April 10, 2001, Hiatt et al.;
29. U.S. Patent No. 6,218,118, issued April 17, 2001, Sampson;

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30. U.S. Patent No. 6,232,465, issued May 15, 2001, Hiatt et al.;
31. U.S. Patent No. 6,312,893, issued November 6, 2001, Van Ness et al.;
32. U.S. Patent No. 6,316,230, issued November 13, 2001, Egholm;
33. U.S. Patent No. 6,361,940 issued March 26, 2002, Van Ness et al.;
34. U.S. Patent No. 6,613,508, issued September 2, 2003, Ness et al.;
35. U.S. Patent No. 6,627,748, issued September 30, 2003, Ju et al.;
36. U.S. Patent No. 6,664,079 issued December 16, 2003, Ju et al.;
37. U.S. Patent No. 6,664,399, issued December 16, 1993, Sabesan;
38. U.S. Patent No. 7,074,597, issued July 11, 2006, Ju;
39. U.S. Application Publication No. 2002/0168642 A1, published November 14, 2002 (Drukier);
40. U.S. Application Publication No. 2003/0008285 A1, published January 9, 2003 (Fischer);
41. U.S. Application Publication No. 2003/0022225 A1, published

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January 30, 2003 (Monforte et al.);

42. U.S. Application Publication No. 2003/0027140, published February 6, 2003 (Ju et al.);
43. U.S. Application Publication No. 2003/0044871, published March 6, 2003 (Cutsforth et al.);
44. U.S. Application Publication No. 2003/0099972, published May 29, 2003 (Olejnik et al.);
45. U.S. Application Publication No. 2004/0185466, published September 23, 2004 (Ju et al.);
46. U.S. Application Publication No. 2005/0032081, published February 10, 2005 (Ju et al.);
47. U.S. Application Publication No. 2006/0057565, published March 16, 2006 (Ju et al.);
48. U.S. Application Publication No. 2006/0003352, published January 5, 2006 (Lipkin et al.);
49. PCT International Publication No. WO 91/06678, May 16, 1991;
50. PCT International Publication No. WO 00/53805, September 14, 2000;
51. PCT International Publication No. WO 01/92284, December 6, 2001;

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52. PCT International Publication No. WO 02/079519 A1, published October 10, 2002;
53. PCT International Publication No. WO 02/22883 A1, published March 21, 2002;
54. PCT International Publication No. WO 02/29003, published April 11, 2002;
55. PCT International Publication No. WO 01/27625 A1, published April 19, 2001 (**Exhibit 1**);
56. PCT International Publication No. WO 04/007773, published January 22, 2004 (**Exhibit 2**);
57. PCT International Publication No. WO 04/055160, published January 22, 2004 (**Exhibit 3**);
58. PCT International Publication No. WO 05/084367, published September 15, 2005 (**Exhibit 4**);
59. PCT International Publication No. WO 06/073436, published July 13, 2006 (**Exhibit 5**);
60. PCT International Publication No. WO 07/002204, published January 4, 2007 (**Exhibit 6**);
61. European Patent Application No. EP 0992511 A, Rapigene Inc., published April 12, 2000 (**Exhibit 7**);

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116. Kolb et al., (2001) "Click Chemistry: Diverse Chemical Function From a Few Good Reactions", *Angew. Chem. Int. Ed.* 40:2004-2021 (**Exhibit 9**);
117. Lewis et al., (2002) "Click Chemistry in Situ: Acetylcholinesterase as a Reaction Vessel for the Selective Assembly of a Femtomolar Inhibitor from an Array of Building Blocks", *Angew. Chem. Int. Ed.*, 41(6):1053-1057 (**Exhibit 10**);
118. Seo et al., (2003) "Click Chemistry to Construct Fluorescent Oligonucleotides for DNA Sequencing", *J. Org. Chem.* 68:609-612

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(Exhibit 11);

119. Fallahpour, (2000) "Photochemical and Thermal reactions of Azido-Oligopyridines: Diazepinones, a New Class of Metal-Complex Ligands", Helvetica Chimica Acta. 83:384-393 **(Exhibit 12);**
120. Ikeda, K. et al., (1995) "A Non-Radioactive DNA Sequencing Method Using Biotinylated Dideoxynucleoside Triphosphates and Delta TTH DNA Polymerase" DNA Research, 2(31):225-227 **(Exhibit 13);**
121. Kim Sobin et al., (2002) "Solid Phase Capturable Dideoxynucleotides for Multiplex Genotyping Using Mass Spectrometry" Nucleic Acids Research, 30(16):e85.1-e85.6, **(Exhibit 14);**
122. Wendy S Jen, John J.M. Wiener, and David W.C. MacMillan, (2000) "New Strategies for Organic Catalysis: The First Enantioselective Organocatalytic 1,3-Dipolar Cycloaddition" J. Am. Chem. Soc., 122, 9874-9875 **(Exhibit 15);**
123. Supplementary European Search Report issued February 16, 2004 in connection with European Patent Application No. 01 97 7533 **(Exhibit 16);**
124. Supplementary European Search Report issued February 9, 2007 in connection with European Patent Application No. 03 76 4568.6 **(Exhibit 17);**

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125. Supplementary European Search Report issued May 25, 2005 in connection with European Patent Application No. 02 72 8606.1 **(Exhibit 18)**;
126. Supplementary European Search Report issued June 7, 2005 in connection with European Patent Application No. 01 96 8905 **(Exhibit 19)**;
127. International Preliminary Examination Report issued on 3/18/05 in connection with PCT/US03/21818 **(Exhibit 20)**;
128. International Preliminary Examination Report issued on 4/3/03 in connection with PCT/US01/31243 **(Exhibit 21)**;
129. International Preliminary Examination Report issued on 2/25/03 in connection with PCT/US01/28967 **(Exhibit 22)**;
130. International Preliminary Examination Report issued on 3/17/03 in connection with PCT/US02/09752 **(Exhibit 23)**;
131. International Preliminary Report on Patentability issued on 9/5/06 in connection with PCT/US05/006960 **(Exhibit 24)**;
132. International Search Report issued 5/13/02 in connection with PCT/US01/31243 **(Exhibit 25)**;
133. International Search Report issued 1/23/02 in connection with PCT/US01/28967 **(Exhibit 26)**;

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134. International Search Report issued 9/18/02 in connection with PCT/US02/09752 (**Exhibit 27**);
135. International Search Report issued 9/26/03 in connection with PCT/US03/21818 (**Exhibit 28**);
136. International Search Report issued 6/8/04 in connection with PCT/US03/39354 (**Exhibit 29**);
137. International Search Report issued 11/4/05 in connection with PCT/US05/06960 (**Exhibit 30**);
138. International Search Report issued 12/15/06 in connection with PCT/US05/13883 (**Exhibit 31**);
139. Written Opinion of the International Searching Authority issued 10/27/05 in connection with PCT/US05/06960 (**Exhibit 32**);
140. Written Opinion of the International Searching Authority issued 12/15/06 in connection with PCT/US05/13883 (**Exhibit 33**);
141. Elango, N. et al. (1983) "Amino Acid Sequence of Human Respiratory Syncytial Virus Nucleocapsid Protein" Nucleic Acids Research, 11(17):5941-5951 (**Exhibit 34**);
142. Buck, G.A. et al. (1999) "Design Strategies and Performance of

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Custom DNA Sequencing Primers", BioTechniques, 27(3):528-536
(Exhibit 35);

143. Hafliger, D. et al. (1997) "Seminested RT-PCR Systems for Small Round Structured Viruses and Detection of Enteric Viruses in Seafood", International Journal of Food Microbiology, 37:27-36 (Exhibit 36);
144. Leroy, E.M. et al. (2000) "Diagnosis of Ebola Haemorrhagic Fever by RT-PCR in an Epidemic Setting", Journal of Medical Virology, 60:463-467 (Exhibit 37);
145. Kokoris, M. et al. (2000) "High-throughput SNP Genotyping With the Masscode System", Molecular Diagnosis, 5(4):329-340 (Exhibit 38); and
146. Kim, S. et al. (2003) "Multiplex Genotyping of the Human β 2-adrenergic Receptor Gene Using Solid-phase Capturable Dideoxynucleotides and Mass Spectrometry", Analytical Biochemistry, 316:251-258 (Exhibit 39).

This Information Disclosure Statement is being submitted under 37 C.F.R. §1.97(b). Applicant requests that the Examiner review the items listed and make them of record in the subject application.

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicant's undersigned attorney invites the Examiner to telephone him at the number provided below.

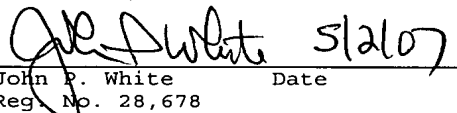
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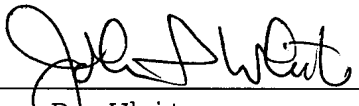
No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-3125.

Respectfully submitted,

I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:

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U.S. Department of Commerce
Patent and Trademark Office

Application Number	10/521,206
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First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	66833-A-PCT-US/JPW/BJA/ML

INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		4,824,775	04-25-1989	Dattagupta
		5,118,605	06-02-1992	Urdea
		5,174,962	12-29-1992	Brennan
		5,302,509	04-12-1994	Cheeseman
		5,599,675	02-04-1997	Brenner
		5,654,419	08-5-1997	Mathies
		5,728,528	03-17-1998	Mathies
		5,763,594	06-09-1998	Hiatt
		5,770,367	06-23-1998	Southern
		5,789,167	08-04-1998	Konrad
		5,804,386	09-08-1998	Ju
		5,808,045	09-15-1998	Hiatt
		5,814,454	10-29-1998	Ju
		5,843,203	11-10-1998	Katzir
		5,849,542	12-15-1998	Reeve et al.
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		5,869,255	02-09-1999	Mathies
		5,872,244	02-16-1999	Hiatt
		5,876,936	12-29-1999	Ju
		5,885,775	03-23-1999	Haff et al
		5,945,283	08-31-1999	Kwok
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Applicants: Jingyue Ju
Serial No.: 10/521,206
Filed: November 9, 2006
Exhibit A

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Application Number 10/521,206	Filing Date November 9, 2006
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				First Named Inventor Jingyue Ju	
				Art Unit	
				Examiner Name	
				Attorney Docket No. 66833-A-PCT-US/JPW/BJA/ML	
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Examiner Initials*	Cite No.¹	Document Number Number-Kind Code² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
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EXAMINER SIGNATURE		DATE CONSIDERED			
<p><small>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.</small></p>					

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Application Number	10/521,206
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				Filing Date	November 9, 2006
				First Named Inventor	Jingyue Ju
				Art Unit	
				Examiner Name	
				Attorney Docket No.	66833-A-PCT-US/JPW/BJA/ML
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials[*]	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T²
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